Released: June 2010
Next MECS will be conducted in 2010
Table 10.20
Reasons that Made Electricity Unswitchable, 2006;
Level: National Data;
Row: NAICS Codes;
Column: Reasons that Made Quantity Unswitchable;
Unit: Million kWh.

Reasons that Made Electricity Unswitchable
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NAICS Code(a)	Subsector and Industry	Total Amount of Electricity Consumed as a Fuel	Total Amount of Unswitchable Electricity Fuel Use	Equipment is Not Capable of Using Another Fuel	Switching Adversely Affects the Products				Unavailable Storage for Another Alternative Fuels(d) Reason	Combinations of Columns F, G, H, I, J, and K	Don't Know
	Total United States										
311	Food	73,551	55,824		162		556	849	106 0		
3112	Grain and Oilseed Milling	15,536	13,245		W		*	Q	Q 0		•
311221 31131	Wet Corn Milling Sugar Manufacturing	6,801 974	5,875 616		W		0 16	0 101	0 0		0 W 0 22
3114	Fruit and Vegetable Preserving and Specialty Foods	9.721	6.866		0		Q	Q	0 0		
3115	Dairy Products	10,079	7,361	6,730	0		146	167	31 0		0 287
3116	Animal Slaughtering and Processing	17,545	13,775		Q		Q	314	Q 0		
312	Beverage and Tobacco Products	8,822	6,018		122		0	0	* 0		
3121 3122	Beverages Tobacco	7,572 1,250	4,810 1,208		122 0		0	0	0 0		8 W 0 W
313	Textile Mills	19,486	14,432		w		0	0	w		
314	Textile Product Mills	5,919	4,988		W		W	0	0 0		
315	Apparel	2,013	1,541		0		0	0	0 0		
316	Leather and Allied Products	413	315		0		0	Q	0 0		0 25
321 321113	Wood Products Sawmills	27,564 7,563	21,260 5,281	19,013 4,390	157 Q	73 68	192 18	121 57	26 0 0 0		
321113	Veneer, Plywood, and Engineered Woods	9,902	7,601	4,390 6,991	Q		161	64	0 0		
3219	Other Wood Products	9,736	8,096		128		13	0	26		
322	Paper	76,719	63,495	52,610	296		438	3,601	Q d		0 5,779
322110	Pulp Mills	1,683	1,515		0		0	0	0 0		0 W
322121	Paper Mills, except Newsprint	25,561	21,624		2		0	594	0 0		
322122 322130	Newsprint Mills Paperboard Mills	9,294 23,515	6,430 19,223		0 187		0 438	0 3,007	0 0		
322130	Printing and Related Support	12,995	8,281	6,925	107 Q		430	3,007	Q (		
324	Petroleum and Coal Products	43,983	36,773		W		w	1,603	w		
324110	Petroleum Refineries	40,527	34,189		W		W	1,603	W C		
324199	Other Petroleum and Coal Products	594	549		0		5	0	15 0		0 *
325	Chemicals	158,176	116,287		1,937	1,610	708	2,394	643 0		
325110 325120	Petrochemicals Industrial Gases	W 20,925	4,251 9,872	4,058 9,145	0		0	0 314	0 0		V W 0 413
325120	Alkalies and Chlorine	20,925 8,893	8,302		0		0	0	0 0		0 413
325182	Carbon Black	690	690		0		0	0	0 0		0 0
325188	Other Basic Inorganic Chemicals	24,171	8,519		72		367	0	106 0	165	5 344
325192	Cyclic Crudes and Intermediates	2,566	592		0		0	0	0 0		0 9
325193	Ethyl Alcohol	2,717	2,002		0		31	15	0 0		0 43
325199	Other Basic Organic Chemicals	W	20,138		1,188		0 Q	153 1,236	0 0		
325211 325212	Plastics Materials and Resins Synthetic Rubber	20,536 1,715	18,583 1,234		0		0	1,236	0 0	-	۷۷ * 25
325222	Noncellulosic Organic Fibers	4,911	4,329		56		0	0	317		
325311	Nitrogenous Fertilizers	2,448	2,369		0		7	494	0 0	27	
325312	Phosphatic Fertilizers	1,827	1,827		W		0		* C		
3254	Pharmaceuticals and Medicines	9,224	7,301		0			83	0 0		
325412 325992	Pharmaceutical Preparation Photographic Film, Paper, Plate, and Chemicals	6,350 1,059	5,110 756		0		110 0	19 43	0 0		6 228 * 16
325992	Plastics and Rubber Products	53.404	37.726		1.347		W	43 Q	W C		
327	Nonmetallic Mineral Products	43,914	35,038		183		154	244	Q 0		
327211	Flat Glass	1,903	1,565	1,292	0	W	0	0	0 0	W	
327212	Other Pressed and Blown Glass and Glassware	5,121	Q		0		0	0	Q 0		
327213	Glass Containers	3,944	3,518		142		0	0	0 0		0 88
327215 327310	Glass Products from Purchased Glass Cements	3,670 12,931	2,886 11,120		27 0	0	0 126	14 193	Q 0		
327410	Lime	1,431	1,183		0	-		W	0 0		0 /21
327420	Gypsum	1,845	1,757	1,756	0		0	0	0 0		* 1
327993	Mineral Wool	4,032	2,734	2,135	0	*	0	Q	0 0		
331	Primary Metals	136,216	111,967		859		199	1,074	275 0		
331111	Iron and Steel Mills	51,381	43,551	38,929	809			924	0 0		-,
331112 3312	Electrometallurgical Ferroalloy Products Steel Products from Purchased Steel	3,178 4,396	2,120 3,428		7			0	0 0		0 0 Q 338
3312	Alumina and Aluminum	4,396 45,796	3,428 35,335		39		0	15	1 0		
331314	Secondary Smelting and Alloying of Aluminum	611	473		0		0	0	0 0		
331315	Aluminum Sheet, Plate and Foils	3,871	2,916	2,901	0	2	0	0	0 0	(	0 13
331316	Aluminum Extruded Products	1,994	1,442	1,275	12	21	0	0	0 0	88	8 47

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Level: National Data; Row: NAICS Codes;

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Unit: Million kWh.

NAICS Code(a)	Subsector and Industry	Total Amount of Electricity Consumed as a Fuel	Total Amount of Unswitchable Electricity Fuel Use	Equipment is Not Capable of Using Another Fuel	Switching Adversely Affects the Products		Environmental Restrictions(b)		Unavailable Storage for Alternative Fuels(d)	Another Reason		Don't Know
3314	Nonferrous Metals, except Aluminum	14,683	12,681	11,952	0	75	W	0	0	0	396	W
3315	Foundries	16,781	14,852	13,606	5	65	W	135	274	0	149	W
331511	Iron Foundries	8,563	8,047	7,366	0	58	Q	0	225	0	149	240
331521	Aluminum Die-Casting Foundries	1,937	1,644	1,324	0	7	72	135	49	0	0	58
331524	Aluminum Foundries, except Die-Casting	1,134	843	662	2	0	2	0	0	0	0	177
332	Fabricated Metal Products	41,965	30,508	26,208	Q	Q	Q	1,685	Q	0	Q	1,438
333	Machinery	32,394	17,757	12,279	Q	Q	Q	Q	0	0	Q	Q
334	Computer and Electronic Products	27,508	20,094	12,798	Q	Q	1,037	1,036	Q	0	1,685	3,247
334413	Semiconductors and Related Devices	12,746	11,308	5,992	24	. 0	1,037	390	0	0	1,334	2,530
335	Electrical Equip., Appliances, and Components	12,869	9,373	8,469	Q	Q	0	Q	0	0	Q	731
336	Transportation Equipment	57,250	44,838	38,346	Q	1,132	260	839	Q	0	Q	2,256
336111	Automobiles	3,899	2,813	2,266	0	1	W	0	0	0	*	W
336112	Light Trucks and Utility Vehicles	4,495	3,920	W	0	0	0	0	0	0	0	W
3364	Aerospace Product and Parts	11,519	8,742	6,972	Q	518	157	Q	Q	0	108	959
336411	Aircraft	3,446	2,994	2,224	0	518	0	0	0	0	23	229

3,973

5,137

553,374

Q

Q

6,926

0

Q

5,696

9,264

9,677

854,102

4,544

6,532

647,591

Reasons that Made Electricity Unswitchable

Q

Q

13,575

0

Q

5,951

0

0

2,478

0

0

Q Q

15,528

539

891

44,064

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).

Furniture and Related Products

- (b) The environmental resrictions related to air quality that limit the amount of the usable alternative fuel that could be used instead.
- (c) Long-term contracts are typically with a utility or third-party supplier such as an energy broker and requires the purchase of a fuel for an extended amount of time.
- (d) The storage of usable alternative fuels is not available due to the potential environmental impact of storage tanks.

  NF=No applicable RSE row/column factor.

Miscellaneous

Total

\* Estimate less than 0.5.

337

339

- W=Withheld to avoid disclosing data for individual establishments.
- Q=Withheld because Relative Standard Error is greater than 50 percent. NA=Not available.

Notes: To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. Totals may not equal sum of components because of independent rounding. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.